Appendix B – Definitions

Word	Definition
Acceptance	Inspection performed at the time an aircraft changes physical or reporting
Inspection	custody. Includes as a minimum, logs and records review, NAMIS baseline
•	data entry, configuration verification to include any one-time
	inspections/replacements issued by NASA, and the equivalent of a preflight
	inspection. NASA may elect to increase inspection depth if the aircraft material
	condition or record examination indicates such actions are warranted.
Accessory	A self-contained unit mounted on a higher assembly or is installed in a weapon
	system or end item of equipment. It is designed to perform a specific function;
	such as, generating electrical power, producing hydraulic or oil pressure or to
	apply these sources of power for actuating doors, mechanisms, and flight
	control surfaces.
Accumulated Work	Hours that are expended against a job/task by individuals assigned to the same
Hours	task (refer to man-hours).
Air Abort	Any discrepancy discovered in flight that results in an aircrew aborting his/her
	planned mission to safely land the aircraft before the mission objectives are
	completed.
Aircraft Change	Aircraft change directives (ACD) apply to all AOD aircraft and aircraft-related
Directive	systems. An ACD refers to airworthiness directives, service changes, customer
	bulletins, service bulletins, engine bulletins, airframe bulletins, and airframe
	changes that are received from aircraft or component manufacturers, the FAA,
	and the DOD and to NASA locally-generated one-time inspections and one-
	time replacements. Compliance of an ACD will be approved/disapproved via
	the AOD Form 1298; Maintenance Instruction Tracking Form.
Aircraft Logbook	A detailed service record maintained for each individual aircraft.
Aviation Life	Individual items worn by, attached to, used by, or provided for aircrew and
Support Systems	passengers to maintain life, health, function, and safety during flight and to
(ALSS) Equipment	provide for escape, descent, survival and recovery. ALSS includes life
	sustaining equipment such as oxygen regulators, pressurization components,
A1	egress or jettison system components, etc., installed on an aerospace vehicle.
Alteration	A change that does not affect the basic character or structure of the end item it
	is applied to. It limits, qualifies or restricts an end item to a new purpose or
A 1:4	end.
Audit	A periodic evaluation of detailed plans, policies, procedures, products, and data.
Avionics	Includes electronic, electrical, instruments, communication and navigation
	equipment and their subsystems taken either as independent equipment, or
Awaiting	integrated systems to accomplish the mission.
Awaiting	Time when an aircraft or end item is not mission capable or partial mission
Maintenance	capable and no maintenance is being accomplished on these end items that
Awaiting Danta	caused the not mission capable or partial mission capable status.
Awaiting Parts	The condition that exists when materials are required to complete the
	maintenance action and these materials are not readily available; work cannot
	be performed on the item being repaired due to lack of ordered parts.



Word	Definition
Bench Check	A physical inspection or functional test of an end item removed for an alleged malfunction to determine if the part or item is serviceable or repairable. It also includes any off-equipment action by maintenance in determining the condition status of an item or a determination of the extent of maintenance, repair, or possible overhaul required to return it to a serviceable status. Bench check includes repair actions when the repair is accomplished concurrently with the bench check.
Beyond the Capability of Maintenance	A term/code used by the intermediate and/or depot level support shops when a repair is not authorized at that level or when an maintenance activity is not capable of being accomplished due to lack of equipment, facilities, technical skills, technical data, or parts.
Bits and Pieces	Items that are normally treated as one piece of hardware, or are physically constructed of two or more pieces joined together in a way that prevents disassembly without destruction or impairment of the designed use. Examples of such items are nuts, screws, gaskets, seals, bearings, brushes, gears, fuses, light bulbs, tubes, capacitors, and resistors.
Cannibalization or Cannibalize	The removal of a component from an aircraft, engine or other end item that is not available from normal supply sources to make a second piece of equipment functional.
Certificated Aircraft	An aircraft certified for flight by the FAA, not a public use aircraft. Also see Type Certificated.
Combined, Preflight and Post-Flight Inspection	An inspection that encompasses the full scope of a pre-flight and post-flight inspection and is accomplished at the same time to satisfy both requirements.
Conditional Inspection	In inspection conducted as a result of a specific over-limit condition, or as a result of circumstances or events which create an administrative requirement for an inspection. Examples include hard landing, overstress/over "G", over-temperature, lightning strike, overweight landing or take-off. Examples of administrative actions include one-time inspections imposed by NASA.
Configuration	The functional and/or physical characteristics of hardware and software as set forth in technical documentation and achieved in a product.
Configuration Control	The procedures necessary to control the form, fit, and function of components, sub-systems, and systems.
Configuration Item	The term can be applied to anything designated for the elements of configuration management and treated as a single entity in the configuration management system. The entity must be uniquely identified so that it can be distinguished from all other configuration items.
Configuration Management System	A unique identification, controlled storage, change control, and status reporting of selected intermediate work products, product components, and products during the life of a system. The objective of this system is to avoid the introduction of errors related to incompatibilities with other configuration items.
Configuration Control Panel	A group of knowledgeable representatives that represent a cross-section of the organization (management, engineering, operations, safety, maintenance and quality) established to review and approve or disapprove configuration changes in the baseline configuration of an aircraft or asset.
Consumable Item	Any item or substance which, upon installation, loses its identity and is normally consumed in use or cannot be economically repaired.



Word	Definition
Contracting Officer	A person with the authority to enter into (purchase), administer or terminate
Contracting Officer	contracts and make related determinations and findings.
Contracting Officer's	A representative designated by the CO who performs primarily technical
Technical	functions such as providing technical direction, inspection, approval of
Representative	drawings, testing, and other functions or a technical or administrative nature not
Representative	involving a change in the scope, price, terms or conditions of the contract.
Controlled	All non-sensitive equipment with an acquisition cost of \$5,000 or more and an
Equipment	estimated service life with two years or more, which will not be consumed or
Equipment	expended in an experiment. Also selected items of property with an acquisition
	cost less than \$5,000 that are designated and identified as sensitive, by the
	holding Center, such as weapons and certain types of hazardous devices.
Customer-Supplied	Products, such as payloads and flight equipment, owned by NASA or another
Product	contractor for the purpose of flight processing, testing, storage, analysis,
Troduct	modification, and/or fabrication.
De-Dock/Post Dock	A formal meeting between NASA representatives and the Contractor for the
Meeting	purpose of identifying all maintenance requirements that were accomplished
11100ting	during the phase/major calendar/hourly inspection or depot work. Refer to
	AOD WI 34100 for additional information on these type meetings.
Delayed Discrepancy	A malfunction or a discrepancy that does not create a not-mission capable status
	and is not immediately corrected.
Deployment	The temporary relocation of an aircraft, support personnel, and equipment from
T 'J	JSC, AOD, Ellington Field, or AOD FOL, to other CONUS or OCONUS
	locations in support of AOD missions.
Depot	The facility where depot level maintenance is accomplished.
Depot Level	Maintenance accomplished on aircraft or equipment requiring major rework or
Maintenance	a complete rebuild of parts, assemblies, sub-assemblies and end items,
("D" Level)	including manufacture, alteration, testing and reclamation of parts as required.
	D-level maintenance is normally accomplished by personnel of higher technical
	skills and in facilities with more extensive shop facilities and equipment than
	available at the O and I level maintenance activities.
Discrepancy	A non-standard condition that is noted when operating or maintaining an
	aircraft/equipment that requires corrective action to restore the
	aircraft/equipment to normal operating conditions/parameters contained in
	approved technical data.
Due in for	A system to track the status and location of repairable aircraft assets to be
Maintenance	returned from repair/overhaul either at field level or depot level maintenance
	activities.
Engineering Project	A defined, bounded activity requiring engineering support.
Engineering Work	The Engineering Work Order (EWO), AOD Form 14, authorizes work on
Order	Johnson Space Center (JSC) aircraft and aircraft-related equipment. It provides
	detailed instructions, establishes a method of work control, collects historical
	records, and facilitates inspection. The EWO serves to combine documentation
	of change, test, fabrication, and repair into a single multi-use document. The
	EWO is required to initiate a configuration change (temporary or permanent) to
	any JSC aircraft, conduct tests where collection of engineering data is
	necessary, fabricate items for use on aircraft and support systems, develop
	software change/test instructions, or repair aircraft (refer to Material Review
	Board) where published technical information is not available.



Word	Definition
Estimated Time-In	Estimated date/time aircraft maintenance actions will be completed to restore
Commission	the aircraft or end item to a full mission capable status.
Familiar	Having a working knowledge for the area identified. Familiarization is
	normally achieved from prior military/commercial experience, formal class-
	room or on-the-job-training.
Fleet Modification	A document describing a modification to be incorporated on an entire aircraft
Instructions	fleet, group of aircraft, or a major system.
Flight Readiness	A thorough, impartial review by NASA Management and the support contractor
Review	to certify an aircraft is safe to fly its intended mission following completion of
	major structure repairs, modifications and/or alterations. Refer to AOD WI
	33840 for additional information concerning Flight Readiness Reviews.
Forward Operating	A facility other than Ellington Field, operated by the Johnson Space Center,
Location	where maintenance and operations of JSC aircraft are performed
Full Mission Capable	The material condition of an aircraft indicating it can perform its assigned
	mission. A Full Mission Capable aircraft has completed a Basic Pre-flight or
	Thru-Flight inspection and is ready in all respects to be released "safe for
F 4: 1.01 1	flight".
Functional Check	The functional check and operation of an end-item on the aircraft or in the
	support shops, using equipment, procedures, and limits in approved technical data. NASA components requiring Functional Checks are contained in CC-
	WD-F1 work cards located in the AOD Library.
Functional Check	A flight to determine whether the airframe, power plants, accessories and
Flight	equipment are functioning per predetermined standards while subjected to the
Tilgit	intended operating environment.
Functionally	Equipment under \$5,000 which is controlled by an on-site functional manager
Controlled	and is not considered sensitive. Functional managers are required to approve
Equipment	purchases and excess actions for equipment in their functional areas.
Ground Abort	For those one of a kind aircraft (WB-57, G-III, DC-9, SGT) that cannot be
	spared for a mission, a ground abort is defined as any time an aircrew walks to a
	scheduled sorties and the aircraft is not subsequently launched due to a detected
	malfunction and the malfunction cannot be repaired within one hour from the
	time of discovery (refer to Maintenance Delay).
	For T-38 and STA aircraft, a ground abort is defined as any scheduled sortie or
	mission which is aborted prior to take-off due to a detected or suspected aircraft
	malfunction and the support contractor cannot provide a spare aircraft or the
	reported malfunction cannot be repaired within one hour from the time of
G 1E (1	discovery (refer to Maintenance Delay).
Ground Functional	Accomplished when the maintenance action on an aircraft involves only the
Check	removal and reinstallation of connecting hardware without a change in
	adjustment or alignment to flight control systems. This ground functional check is used to determine airworthiness of an aircraft in lieu of a functional check or
	operational check flight.
Ground Support	Powered or Non-Powered Support Equipment used to support maintenance in
Equipment	the servicing, repair, operation, removal/installation of equipment or test of
quipinont	aircraft and its related systems. Ground support equipment also includes all
	calibrated tools, test sets and other calibrated equipment that involves the use of
	approved instrument calibration procedures.
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Word	Definition
Hand Tool	A tool commonly used on aircraft such as screwdrivers, wrenches, sockets,
Tiuna 1001	which may be easily purchased from a local vendor.
Hazard	Any real or potential condition that can cause injury or death to personnel, or
11aZalu	damage to, or loss of equipment or property. This hazard may be a result of
	personnel error, environment, design characteristics, procedural differences, or
	sub-systems or component failure or malfunction.
Human Factors	Recognition that personnel performing tasks are affected by physical fitness,
Human Factors	physiological characteristics, personality, stress, fatigue, distraction,
	communication and attitude.
Inspection	
Inspection	The examination and testing of aircraft, engines, supplies and services,
	including raw materials, components, and intermediate assemblies, to determine
T	whether they conform to specified requirements.
Intermediate	Maintenance which is the responsibility of, and is performed by designated
Maintenance	maintenance activities for direct support of organizational maintenance
("I" Level)	activities. It includes, but is not limited to calibration, repair or replacement of
	damaged or unserviceable parts, components or assemblies, and the local
** ~	fabrication of non-available parts.
Key Characteristics	The features of a material, process, or part whose variation has a significant
	influence of product fit, performance, service life or manufacturability.
Life-Limited	Any component for which mandatory replacements limit (calendar, hourly,
Component	cycles or events) are specified in the type design, the Instructions for Continued
	Airworthiness, or approved maintenance manual.
Life Status	The accumulated calendar days, hours, cycles or events on mandatory life-
	limited components.
Maintenance	The function of retaining material in, or restoring it to, a serviceable condition.
	It includes servicing, inspecting, replacement, alterations, or defect rectification
	of an aircraft or an aircraft component that is performed after completion of
	manufacturing.
Maintenance Delay	Any mission that is delayed due to a detected or suspected maintenance
	malfunction discovered by an aircrew and/or maintenance personnel on an
	assigned aircraft that can be corrected by the maintenance contractor within 1
	hour from the received time of the reported malfunction.
Material Review	A Material Review Board, refer to Engineering Work Order, provides technical
Board (MRB)	repair instructions when no other technical data is available or the existing
	technical publications, engineering drawings, or procedures are inadequate
	(does not apply to FAA certified aircraft).
Major Engine	A comprehensive inspection performed to determine the material condition of
Inspection	an engine. This inspection is performed when the engine is removed from the
•	aircraft.
Mission Capable	The material condition of an aircraft indicating it can perform its assigned
_	missions. A Basic Preflight or Thru-flight Inspection has not been performed
	and the aircraft is not ready to be released "safe for flight".
Mission Management	Those administrative aircraft certified by the Federal Aviation Administration
Aircraft	and used primarily for passenger transport. These include aircraft used to
	transport management and staff personnel on official travel for the purpose of
	satisfying mission requirements or other travel for the conduct of agency
	business.
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Word	Definition
Non-conformance	A condition of product or service in which any characteristics do not conform to specifications required and/or stated. This may include failures, deficiencies, defects, malfunctions and the like.
Non-Labor Resources	Resources provided by the contractor other than labor to include materials, equipment, training, travel, and other direct costs.
Not Mission Capable	The material condition of an aircraft indicating it is not capable of performing any of its assigned missions (refer to Not Mission Capable Maintenance or Supply).
Not Mission Capable Maintenance	The material condition of an aircraft or component indicating it is not capable of performing its assigned mission due to a "downing" discrepancy for scheduled or unscheduled maintenance in the NASA provided automated database.
Not Mission Capable Supply	The material condition of an aircraft indicating it is not capable of performing its mission due to a "downing" discrepancy for scheduled or unscheduled maintenance that cannot be accomplished due to supply shortage. Aircraft in this category are at a complete work stoppage for supply.
Operational Check Flight	An in-flight check of lesser severity than a functional check flight that is flown to determine whether selected aircraft systems operate per predetermined standards while subjected to the intended operating environment.
Organizational Maintenance ("O" Level)	Maintenance (scheduled or unscheduled which is the responsibility of, and is performed by, a using organization on its assigned equipment. It includes, but is not limited to inspecting (conditional, special, phase, calendar, cyclic, before/after flight, acceptance or transfer) servicing, lubricating, adjusting, replacing line replaceable units, mechanical accessories, electrical/hydraulic and minor assemblies and sub-assemblies.
Phase Inspection	A series of related inspections performed sequentially at specific intervals. These inspections are the result of dividing the maintenance requirements into small packages containing approximately the same workload.
Post-Flight Inspection	An inspection conducted after each flight to detect degradation or damage that may have occurred during the flight and to determine the need for servicing.
Pre-Dock Meeting	A formal meeting between NASA and the support contractor prior to the input of an aircraft into scheduled phase/major calendar/hourly inspections or depot work to identify all maintenance requirements that will be accomplished during these type inspections. Refer to AOD WI 34100 for additional information regarding Pre-dock Meetings.
Preflight Inspection	The final inspection conducted prior to the first flight of each flight day to ensure the aircraft is safe for flight and to verify proper servicing.
Preventive	Systematic inspection, detection, correction, and prevention of early failures,
Maintenance	before they become actual or major failures.
Program Support Aircraft	Aircraft used to support programs and mission operations. This includes, but is not limited to, astronaut training, safety chase, photo chase, cargo transport, flight training, range surveillance, launch security, and command and control.
Project Aircraft	An aircraft with a problem that cannot be solved with normal maintenance technical data, requiring engineering assistance. Specific anomalies will also cause an aircraft to become a project. Refer to AOD WI 33820 for additional information on Project Aircraft.



Word	Definition
Project Engine	An engine with a problem that cannot be solved with normal maintenance
	technical data, requiring engineering assistance. Specific anomalies will also
	cause an engine to become a project. Refer to AOD WI 33820 for additional
	information on Project Engine.
Property, Plant and	An agency-wide tool/system used throughout the agency to identify, control and
Equipment System	account for Government-owned equipment acquired by or in use by NASA and
	its Contractors.
Public Use Aircraft	An aircraft operated by or on behalf of the Government.
Qualifications	Training or competencies, which provide an individual the necessary skills,
	knowledge, or credentials to perform a specific function. These qualifications
	are normally achieved from prior military/commercial experience, formal class-
	room or on-the-job-training.
Quality Management	A system by which an organization aims to reduce and eventually eliminate
System (QMS)	non-conformances to specifications, standards, and customer expectations in the
	most effective and efficient manner.
Receiving Inspection	An inspection to verify that purchased products conform to specified purchase
	requirements. Verification activities may include obtaining objective evidence
	of the quality of the product from suppliers to include accompanying
	documentation, certificate of conformity, test reports, statistical records and
	establishment of process controls to ensure key characteristics have been met.
Scheduled	Known or predictable maintenance requirements based on calendar, hourly,
Maintenance	events, or cycles, that can be planned or programmed for accomplishment on
	short and long-range schedules. This includes accomplishing recurring
	scheduled maintenance inspection and servicing, complying with configuration
	items, accomplishing scheduled time change item replacements, and correcting
	delayed or deferred discrepancies. It also includes modification and renovation
G ' D 11 .'	projects that are programmed for depot.
Service Bulletin	A document which directs a one-time inspection of an in-service aircraft,
	system, sub-assemblies, components or piece of support equipment. These
Carrier Clauses	documents are normally issued by Federal Aviation Authority (FAA) or DoD.
Service Change	A document which directs and provides instructions for the accomplishment of
	a change, modification, repositioning or alteration of material in an in-service
	aircraft, system, sub-assemblies, components or piece of support equipment
	from its original design. These documents are normally issued by Federal Aviation Authority (FAA) or DoD.
Sensitive Equipment	An item of equipment that, due to its pilferable nature or the possibility of it
and Parts	being a hazard, requires a stringent degree of control. A sensitive item can be
and raits	capital or non-capital. Generally, sensitive items are controlled at an
	acquisition cost of \$500 or more.
Serviceable	The condition of an item that is capable of performing its purpose and function
Condition	to the requirements for which it is originally intended.
Servicing	The replenishing of all fluids, fuel, oil, water methanol, as well as cleaning the
501 (101115	aircraft exterior and interior, cleaning food dispensing equipment, ice chests,
	coffee pots, hot cups, chemical toilets, as required. This may also include
	storage of meals on the aircraft.
Sortie	A completed flight; equivalent to 1 takeoff and 1 full stop landing.
501110	11 completes inght, equitment to 1 takeon and 1 tan stop landing.



Word	Definition
Special Inspection	A scheduled inspection with a prescribed interval other than preflight, phase,
Special Inspection	major engine or standard depot level maintenance. These intervals are specified
	in the applicable planned maintenance system publication and are based on
	elapsed calendar time, flight hours, operating hours, or number of cycles or
	events. Examples include 50 hour, 225 hour, 45-day, and 90-day inspections.
Special Upkeep	Work accomplished to an aircraft, without regards to flying hours or special
Брестаг Орксер	events, to improve, change or restore and/or enhance the material condition.
	For example, corrosion control program, major paint touch-ups.
Time Change	A document issued by the DOD to provide technical information necessary to
Technical Order	properly and systematically inspect or alter the configuration of aircraft,
Technical Order	engines, systems or components. This includes all types of changes and
	bulletins and consists of information that is not normally disseminated by
	revisions to technical manuals.
Technical Data	Data that is necessary to ensure that the aircraft and related systems can be
Technical Data	maintained in a condition such that serviceability and airworthiness of the
	aircraft and related operational and emergency equipment, is assured. This data
	includes computerized maintenance program (CMP) cards, NASA/Department
	of Defense (DoD) technical orders and work cards, manufacturer's maintenance
	manuals, Aircraft Operations Division (AOD) unique work instructions (WIs),
	engineering work orders (EWOs), fleet modification instructions (FMIs),
	engineering drawings, test procedure – flight research project (TP-FRP)
	instructions, Federal Aviation Authority (FAA)-approved original equipment
	manufacturer (OEM) standards, aircraft change directives (ACDs) (e.g.
	airworthiness directives, service bulletins, etc) and any other subscriptions,
	data, and specifications.
Test Procedure-Flight	An approved, repetitive inspection or test on NASA aircraft, components or
Research Project	ground support equipment.
Through-Flight	An inspection conducted on an aircraft between flights flown on the same day
Inspection	to ensure the integrity of the aircraft for flight, verify proper servicing, and to
mspection	detect any degradation that may have occurred during the previous flight.
Training	The process of providing knowledge and skills to individuals to better enable
Trummg	them to perform their current duties or future duties. Training may include job-
	specific training such as a series of instructions or proficiency demonstrations
	leading to a qualification.
Transfer Inspection	Inspection performed at the time an aircraft changes physical or reporting
Transfer inspection	custody. Includes as a minimum, logs and records review, NAMIS data
	storage, and the equivalent of a preflight inspection. NASA may elect to
	increase inspection depth if the aircraft material condition or record
	examination indicates such actions are warranted.
Troubleshooting	The logical, analytical, and where applicable, an approved technical order
11040105110041115	prescribed procedure followed in isolating aircraft/equipment malfunctions.
Turn-around Time	This includes wheels in the well for the first flight to wheels in the well for the
Tarii arouna Time	second flight and any maintenance time required to repair, inspect, service and
	prepare the aircraft "safe for flight".
Type Certificated	Aircraft with FAA airworthiness certificates.
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Word	Definition
Unscheduled	Unpredictable maintenance requirements, maintenance not previously planned
Maintenance	or programmed, maintenance requiring prompt attention and must be added to, integrated with, or substituted for previously scheduled workloads. This includes, but is not limited to, compliance with immediate action aircraft change directives, correction of discrepancies discovered during flight or operation of equipment, and performance of repairs as a result of accidents or incidents.
Weather Abort	Any scheduled mission that is not completed due to inclement weather.
Work Instruction	A document that describes how to accomplish specific job activities needed to ensure consistent working methods and achieve the required quality standard.